

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. A light source driving method ~~of for~~ ~~a projector for projecting~~ ~~that projects~~ an image, ~~wherein control of comprising:~~
~~controlling a driving waveform for supplying to supply~~ electric power to a light source ~~and control for:~~
~~controlling receiving said the projected image and obtaining image data to adjust said the projected image are synchronized; and~~
~~synchronizing the controlling steps.~~
2. The light source driving method of the projector according to claim 1, ~~wherein the light source driving method comprises a synchronous signal generating process for generating a signal as an operation reference, and the projector including~~ a light source driving section for supplying the electric power for operating the light source, and an image obtaining section for receiving ~~said the projected image and obtaining the image data to adjust said the projected image are operated in synchronization with said signal generated in said synchronous signal generating process;~~
~~the method further including generating, via a synchronous signal generating process, a signal as an operation reference, and operating the light source driving section and the image obtaining section in synchronization with the signal generated in the synchronous signal generating process.~~
3. The light source driving method of the projector according to claim 1 or 2, ~~wherein~~ ~~the method further including:~~

_____ obtaining, with the said-image obtaining section, obtains saidthe image data in a period of the same driving waveform in synchronization with the control of the driving waveform for supplying the electric power to saidthe light source, and _____ saidchanging, with the light source driving section, changes an electric current while lighting saidthe light source after saidthe image obtaining section obtains saidthe image data.

_____ 4. A projector for projecting an image, whereincomprising:
_____ a controller that synchronizes control of a driving waveform for supplying electric power to a light source andwith control forof receiving saidthe projected image and obtaining image data to adjust saidthe projected image are synchronized.

_____ 5. The projector according to claim 4, wherein
_____ the projector comprisesfurther including:
_____ thea light source foremitting that emits light;
_____ a light source driving section forsupplying that supplies the electric power foroperating to operate the light source;
_____ an image obtaining section forreceiving saidthat receives the projected image and obtaining obtains the image data to adjust saidthe projected image; and
_____ a synchronous signal generating section forgenerating that generates a signal as an operation reference; and
_____ said, the synchronous signal generating section generatesgenerating a first operation signal fordetermining to determine operation timing of an electric current output of saidthe light source driving section, and a second operation signal fordetermining to determine operation timing for receiving saidthe projected image and obtaining the image data by saidthe image obtaining section, and said;

_____ the light source driving section and said the image obtaining section are-being synchronously operated.

6. The projector according to claim 4 or 5, wherein

_____ said the image obtaining section obtains saidobtaining the image data in a period of the same driving waveform in synchronization with the control of the driving waveform for supplying the electric power to said the light source, and

_____ said the light source driving section changes changing an electric current while lighting said the light source after said the image obtaining section obtains said the image data.